

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/758,283	01/16/2004	Ryoichi Ishikawa	107355-00105	5140	
4372	7590 04/21/2005		EXAM	INER	
ARENT FO	X PLLC ECTICUT AVENUE, N.W.		MAI, NGOCLAN THI		
SUITE 400	ecticul Avenue, n.w.		ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC 20036		1742 DATE MAILED: 04/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applica	ation No.	Applicant(s)			
	10/758	,283	ISHIKAWA ET AL.			
Office Action Summary	Examir	ner	Art Unit			
	Ngoclai	n T. Mai	1742			
The MAILING DATE of this comm	nunication appears on	the cover sheet with the d	correspondence address			
A SHORTENED STATUTORY PERIO THE MAILING DATE OF THIS COMM - Extensions of time may be available under the provis after SIX (6) MONTHS from the mailing date of this of the period for reply specified above is less than thi f NO period for reply is specified above, the maximulate of the period for any reply received by the office later than three more earned patent term adjustment. See 37 CFR 1.704(UNICATION. sions of 37 CFR 1.136(a). In no communication. rty (30) days, a reply within the s im statutory period will apply and reply will, by statute, cause the a nths after the mailing date of this	event, however, may a reply be tir tatutory minimum of thirty (30) day i will expire SIX (6) MONTHS from application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s)) filed on 1/16/04.					
2a) This action is FINAL.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the	e application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to re	striction and/or electior	requirement.				
Application Papers						
9)☐ The specification is objected to by	y the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
* See the attached detailed Office a	ction for a list of the ce	rtified copies not receive	ed.			
American						
Attachment(s) 1) Notice of References Cited (PTO-892)		4) D Intonious Summero	(PTO 413)			
2) Notice of Draftsperson's Patent Drawing Review		4) Interview Summary Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO-144: Paper No(s)/Mail Date 1/16/04.	9 or PTO/SB/08)	5) Notice of Informal P 6) Other:	atent Application (PTO-152)			
J.S. Patent and Trademark Office						
PTOL-326 (Rev. 1-04)	Office Action Summ	n ary Pa	rt of Paper No./Mail Date 04142005			

Application/Control Number: 10/758,283 Page 2

Art Unit: 1742

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are drawn to method for manufacturing however there is no positive active method step present in the claims which rendering them indefinite.

Claim 4 appears to be a duplication of claim 5 because the metal plate of claim 4, which depends on claim 1 inherently is a flat plate.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen et al. (US 3,087,807).

Allen et al. disclose a method for making foamed-metal structure comprising mixing a powdered structure metal with a powdered gas-forming material, compacting

Page 3

Art Unit: 1742

the mixture to form consolidated material having gas-forming material embedded in the metal matrix, placing the consolidated material in a hollow structure form and subjecting the material above the melting temperature so that rapidly foaming takes place to fill the hollow structure. Allen et al teach the structure metal can be aluminum and gas-forming material can be hydride of titanium, col. 5, lines 46-54, while hollow structure material can be thin aluminum tube, col. 4, lines 52-62.

The difference between the claims and Allen et al is the shape of the structure that is used for enveloping the consolidated material of Allen et al.

Although employing flat plate metal to envelope the material is not taught, such would not be a patentable difference since it would be an obvious modification to utilize a flat plate metal to first attach the material and then forming it in such a way so long that it envelopes the material.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/758,283 Page 4

Art Unit: 1742

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngocian T. Mai Primary Examiner Art Unit 1742

n.m.